

### Abstract

A motor comprises a rotor, a stator, and a shaft ,wherein one of the stator and the rotor is provided with a housing, a rolling bearing is provided between the housing and the shaft and having an inner race and outer race, the inner race is fixed to the shaft through adhesion between the outer peripheral surface of the shaft and the inner peripheral surface of the inner race, the outer race is fixed to the housing through press-fitting, and the outer peripheral surface of the shaft is formed with knurled grooves, where the number (P) of the knurled grooves in the circumferential direction and the number (Z) of the rolling members in the rolling bearing are in the relations of  $P \neq n Z$  and  $P \neq nZ \pm 1$  where n is a positive integer.